



# 1998 Toxics Release Inventory

## OKLAHOMA

### Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	21,652,077	15,893,069	37,545,146
Air Emissions	16,867,200	6,240,341	23,107,541
Surface Water Discharges	751,512	61,874	813,386
Underground Injection Class I Wells	3,318,269	1,109,751	4,428,020
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	525,142	6,642,012	7,167,154
Other On-site Land Releases	189,954	1,839,091	2,029,045
Off-site Releases (Transfers Off-site to Disposal)*	2,527,302	1,758,886	4,286,188
<b>Total On- and Off-site Releases</b>	<b>24,179,379</b>	<b>17,651,955</b>	<b>41,831,334</b>
Recycled On-site	40,910,547	0	40,910,547
Recycled Off-site	21,345,349	0	21,345,349
Energy Recovery On-site	232,300	0	232,300
Energy Recovery Off-site	4,679,332	6,670	4,686,002
Treated On-site	18,606,140	1,831,454	20,437,594
Treated Off-site**	1,514,188	2,266	1,516,454
Quantity Released On- and Off-site**	23,129,013	17,610,376	40,739,389
<b>Total Production-related Waste Managed</b>	<b>110,416,869</b>	<b>19,450,766</b>	<b>129,867,635</b>
<b>Total Non-production-related Waste Managed</b>	<b>284,686</b>	<b>70</b>	<b>284,756</b>

### Transfers Off-site for Further Waste Management/Disposal

Recycling	21,823,725	55	21,823,780
Energy Recovery	4,543,790	6,670	4,550,460
Treatment	466,806	560	467,366
Publicly Owned Treatment Works (POTWs)	537,233	0	537,233
Metals and Metal Compounds*	13,591	0	13,591
Non-metal TRI Chemicals**	523,642	0	523,642
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	2,732,161	1,759,920	4,492,081
<b>Total Transfers Off-site for Further Waste Management/Disposal</b>	<b>30,103,715</b>	<b>1,767,205</b>	<b>31,870,920</b>

\* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.

\*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

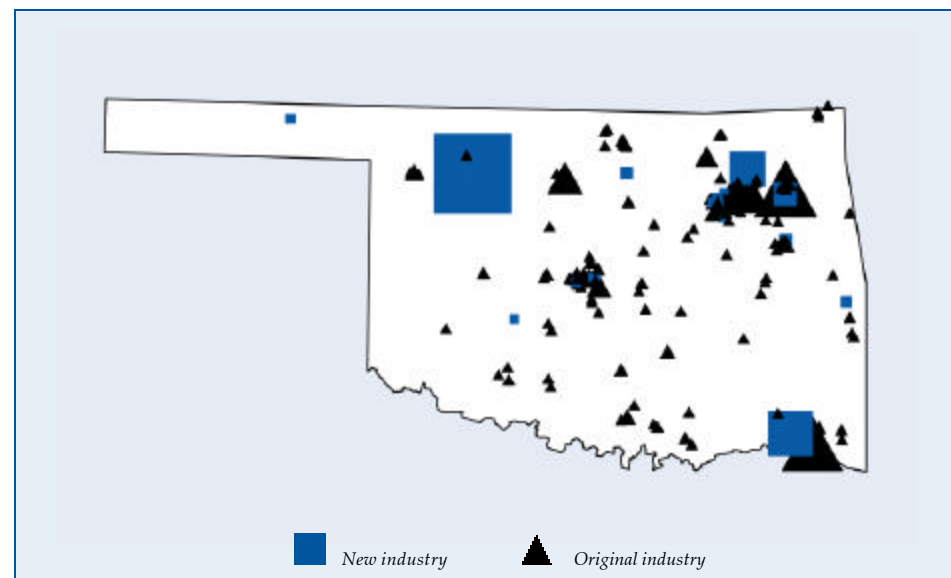
\*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

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**To obtain TRI data use assistance, call  
TRI User Support Service (TRI-US):**  
(202) 260-1531  
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Oklahoma. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

### State/TRI Data

Population	3,346,713
Square Miles	68,679
Total Facilities	313
Total Forms	1,072
Form As	209

	Original Industries	New Industries	Total
<b>National Rank for Total On- and Off-site Releases*</b>			
Rank	30	32	31
Pounds	24,179,379	17,651,955	41,831,334
<b>National Rank for Total On-site Releases**</b>			
Rank	30	30	32
Pounds	21,652,077	15,893,069	37,545,146
<b>National Rank for Total Releases within State***</b>			
Rank	28	32	31
Pounds	25,063,720	17,540,275	42,603,995
<b>National Rank for Production-related Waste Managed</b>			
Rank	33	36	38
Pounds	110,416,869	19,450,766	129,867,635

\* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

\*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.

\*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



# 1998 Toxics Release Inventory

## OKLAHOMA

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7664-41-7	Ammonia	5,570,716	47,925	36,447	5	1,900	5,656,993	41	1,900	0
—	Nitrate compounds	31,015	634,543	3,278,140	2,750	2,169	3,948,617	4,970	2,169	0
67-56-1	Methanol	3,181,865	10,722	0	13,111	5,350	3,211,048	15,499	0	5,350
108-88-3	Toluene	1,333,168	4,012	2,700	255	626	1,340,761	993	0	626
1330-20-7	Xylene (mixed isomers)	1,243,526	3,556	0	256	2,697	1,250,035	48,008	0	2,697
—	Zinc compounds	22,748	3,663	511	72,472	732,174	831,568	621,476	412,725	334,898
78-93-3	Methyl ethyl ketone	633,969	2,735	0	409	22,773	659,886	3,362	0	22,773
100-42-5	Styrene	441,223	0	0	7,051	13,354	461,628	3,063	13,354	0
—	Manganese compounds	4,395	30,571	0	355,144	39,655	429,765	64,253	33,473	6,182
—	Glycol ethers	410,942	5	0	0	4,700	415,647	8,597	3,200	1,500

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.

### On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7647-01-0	Hydrochloric acid	4,557,000	0	0	0	0	4,557,000	0	0	0
—	Barium compounds	30,491	36,772	0	1,852,800	939,010	2,859,073	680	802,010	137,000
—	Lead compounds	470	0	1,000	1,800,000	104,488	1,905,958	1,309,341	104,000	488
7664-39-3	Hydrogen fluoride	1,460,000	0	0	0	0	1,460,000	0	0	0
—	Zinc compounds	4,326	3,660	0	1,356,528	72,210	1,436,724	1,376,309	35,210	37,000
—	Nitrate compounds	0	0	1,108,651	0	1,995	1,110,646	2,697	0	1,995
—	Cadmium compounds	220	0	0	1,100,000	9	1,100,229	1,542	0	9
—	Chromium compounds	1,823	172	100	733,043	57,205	792,343	36,020	27,555	29,650
—	Manganese compounds	3,630	1,224	0	165,070	459,510	629,434	11	174,510	285,000
—	Copper compounds	1,772	6,144	0	571,700	37,420	617,036	2,529	26,110	11,310

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\* The chemical ranking is based on the amounts in this column.



# 1998 Toxics Release Inventory

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### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Wil-Gro Fertilizer, Pryor, Mayes	373,820	290,260	3,314,587	0	0	0	3,978,667	0	0
Weyerhaeuser Co., Valliant, Mc Curtain	3,272,496	48,216	0	0	475,778	0	3,796,490	0	0
Terra Nitrogen, Ltd. Partnership, Catoosa, Rogers	2,652,530	256,429	0	0	0	250	2,909,209	0	0
Farmland Ind. Inc., Enid, Garfield	1,826,637	6,010	0	0	0	1,005	1,833,652	0	0
GM SCG, Oklahoma City Assembly, Oklahoma City, Oklahoma	982,023	0	0	0	0	0	982,023	671	8,808
Baker Petrolite Corp., Barnsdall, Osage	840,300	0	2,700	0	0	0	843,000	0	0
Terra Nitrogen Corp. Woodward Complex, Woodward, Woodward	496,035	40,550	0	0	0	0	536,585	0	0
Sunoco Inc., Tulsa, Tulsa	436,678	738	0	0	0	837	438,253	1,100	0
TPI Petroleum Inc., Ardmore, Carter	376,869	44,132	0	0	0	0	421,001	0	0
Fort James Operating Co., Muskogee, Muskogee	356,117	5,565	0	0	0	37,476	399,158	220	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

### On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Safety-Kleen (Lone & Grassy Mtn. Inc. — Lone Mtn. Fac.), Waynoka, Major	1,737	0	0	0	6,642,012	0	6,643,749	0	10,525
Western Farmers Electric Coop, Hugo, Choctaw	3,392,000	8,350	0	0	0	8,350	3,408,700	0	0
Northeastern Station, Oologah, Rogers	1,842,485	43,550	0	0	0	641,130	2,527,165	0	0
Grand Riverr Dam Authority Coal Fired Complex, Chouteau, Mayes	176,118	357	0	0	0	1,149,000	1,325,475	0	0
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	1,109,751	0	0	0	1,109,751	114,450	6,295
Muskogee Generating Station, Muskogee, Muskogee	376,549	8,569	0	0	0	6,151	391,269	701,830	0
Sooner Generating Station, Red Rock, Noble	250,679	808	0	0	0	34,460	285,947	153,820	0
AES Shady Point Inc., Panama, Le Flore	140,472	0	0	0	0	0	140,472	232,000	541,000
Turpin Refined Prods. Terminal, Turpin, Beaver	29,370	0	0	0	0	0	29,370	0	0
Conoco Inc., Glenpool Prods. Terminal, Jenks, Tulsa	15,650	0	0	0	0	0	15,650	0	0

\*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



# 1998 Toxics Release Inventory

## OKLAHOMA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Wil-Gro Fertilizer, Pryor, Mayes	0	0	0	0	0	0	3,978,667	3,978,667	9,988
Weyerhaeuser Co., Valliant, Mc Curtain	0	0	0	0	7,706,679	0	3,796,740	11,503,419	0
Terra Nitrogen, Ltd. Partnership, Catoosa, Rogers	2,200,000	0	0	0	133,000	0	2,761,490	5,094,490	90,004
Farmland Ind. Inc., Enid, Garfield	2,084,000	186,000	0	0	1,413,600	0	1,832,545	5,516,145	0
GM SCG, Oklahoma City Assembly, Oklahoma City, Oklahoma	0	278,000	0	43,100	123,813	54,385	987,760	1,487,058	0
Baker Petrolite Corp., Barnsdall, Osage	30,386,000	0	0	800	0	0	840,300	31,227,100	21,960
Zinc Corp. of America, Bartlesville, Washington	0	0	0	0	0	0	560,822	560,822	0
Terra Nitrogen Corp. Woodward Complex, Woodward, Woodward	0	0	0	0	0	0	541,090	541,090	5,400
IMCO Recycling Inc., Sapulpa, Creek	0	0	0	0	0	0	448,700	448,700	0
Sunoco Inc., Tulsa, Tulsa	0	0	0	3,653	79,110	0	438,960	521,723	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site*	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Safety-Kleen (Lone & Grassy Mtn. Inc. — Lone Mtn. Fac.), Waynoka, Major	0	0	0	0	154,000	0	6,652,061	6,806,061	18
Western Farmers Electric Coop, Hugo, Choctaw	0	0	0	0	0	0	3,380,114	3,380,114	7
Northeastern Station, Oologah, Rogers	0	0	0	0	7,600	0	2,514,200	2,521,800	0
Grand Riverr Dam Authority Coal Fired Complex, Chouteau, Mayes	0	0	0	0	890,000	0	1,325,000	2,215,000	8
Perma-Fix Treatment Services, Tulsa, Tulsa	0	0	0	0	0	1,995	1,228,776	1,230,771	3
Muskogee Generating Station, Muskogee, Muskogee	0	0	0	0	460,000	0	1,095,800	1,555,800	0
AES Shady Point Inc., Panama, Le Flore	0	0	0	0	0	0	914,000	914,000	0
Sooner Generating Station, Red Rock, Noble	0	0	0	0	290,000	0	442,400	732,400	0
Turpin Refined Prods. Terminal, Turpin, Beaver	0	0	0	0	0	0	28,070	28,070	0
Conoco Inc., Glenpool Prods. Terminal, Jenks, Tulsa	0	0	0	0	0	16	15,650	15,666	0

\*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.